

FIGURE 1

AAC Asn ATA Ile CAC CAA Gln GAA Glu AAT Asn ATC Ile GTA Val AAT Asn CTT TTG GT'T' Val GGG GAT ASP GAT Asp GAG ACA Thr AAA Lys TTC GAT ATG Met AGT Ser GAA Glu TTG AAT Asn GAA Glu ATT Ile GAA Glu TCT CAA Gln CIC CAT GAG Glu GI'C Val TTT ATT Ile TCT CTA AAA Lys ACA Thr ATT Ile T'T'G Leu GAT Asp GAA Glu AAA Lys TAT Tyr TGC TTG TTA AAG Lys ACA Thr ATC Ile GAG Glu CAT GAT Asp ATG Met AAC GAT Asp GTA Val ACT Thr TGT AAC Asn AGT GAA Glu GCA GGA Gly T'T' Phe GCT GAT Asp GCA ATA Ile AAA Lys AGT Ser ACA Thr TCC Ser TGC Cys CAG GTA Val ATT Ile GAG Glu CTA GTA Val GGA TTG Asn AAG Lys CAT ATC Ile CAT AAT A'I'G Met TCA Ser ATC Ile TTT Phe GTG Val TGC TCT TGG Trp ATT Ile GAA Glu Ser Ser CTT GAA Glu I.C.I. AGT AAC Asn ACA Thr CAA Gln CCCPro AAT' Asn AAA Lys GTT Val

ACT TCT TGA Thr Ser

FIGURE 2

CAC His CAA Gln GTA Val AAC Asn AAT Asn CTT AAT Asn TTA GTA Val AIC Ile GTT Val GAT GAT Asp GAG ACA Thr GGG Gly AAA Lys TTC GAA Glu TTG GAT AGT Ser AAT Asn GAA Glu ATG Met GAA Glu ATT Ile CTC CAT His TCT Ser GAG Glu CAAGAAA Lys ACG Thr ATT Ile TCT TTT CTG GIC AAA Lys TGC AGT Ser TTG TAT Tyr ATT Ile GAA Glu TTG TTA AAG Lys GCA AGT Ser GAG Glu CAT His GAT Asp ATG Met AAC Asn ACT Thr GAT Asp GTA Val TGT AGT Ser AAC Asn GCA GGA Gly GCT Ala GAA Glu T'T'T Phe ATA Ile GAT Asp ACA Thr GCA Ala TCC Ser AAA Lys AGT Ser GTA Val ATT Ile GTA Val GAG Glu CTA CAG TGC AAT Asn AAA Lys ATC Ile CAT His GGA Gly TTG CTT ATG Met GTG Val TGC Cys TCA Ser ATC Ile TCT Ser TTT Phe TGG Trp TCT Ser Ser ATT Ile CTG AGT GAA Glu GAA Glu AAC Asn CCC CAA Gln AAT Asn GTT Val ACA Thr AAA Lys

ACT TCT TGA Thr Ser

FIGURE 3

CV-MEBNA DMEM serum free bioreactors YM30 Spiral cartridge conc.

add ammonium sulfate HEPES pH 8.5

Plienyl Sepharose CL-4B 0.2M ammonium sulfate 20 mM HEPES pH 8.5 clute with 10mM HEPES pH 8.5 add NaCl to 1.6 m5/cm

DEAE Sephacel 10mM HEPES pH 8.5 0.14 to 0.3 M NaCl gradient dilute to 1.2 m5/cm

Mono Q 10mM HEPES pl1 8.5 0.1 to 0.5 M NaCl gradient

11PLC C4 reverse planse (Vydae, 46 X25 cm, 5u) 0.1% TitA to 0.1% TitA/100% AcN, 1ml/min

0 to 45% AcN 1%/min 45-60% AcN 0.5%/min 60-100% AcN 2%/min

UPLC C4 reverse phase (Yydac 46X25cm, 5u) 0.1% TFA to 0.1% TFA/60% n-propanol 0.5ml/min 0.5%/min gradient

SDS PAGE 14%, reducing

ľYDÍ:

N-terminal protein sequence

FIGURE 4

•	KOTTOTTGA	EDAADTADI	ずりずんふんごりょう	TTTGTACATATT
				TTTGTACATATT
				DOADTOTAADAA LDDADTOTAADAA
			1111111	AGCAAACAACAG AGCAAACAACAT
				TABABBDDTBAB
				AAGTAACAGCAA AGGTAACAGCAA
11111111111				DOTADITATADO DOTADITATADO
111111111				GTGAATGTAADTO
1111111111				TCATTTTGGGCT
	1 1 1 1 1 1 1 1 1 1 1			GTGTTACTTC CTTACTTCC
			111111111	ATGAGAATTTCO

FIGURE 5

		151
	151 FVHIVQMFINTS* 163	15.
150		101
150	ESGDASINDTVENLILLANNSLSSNGNVTESGCKECEELEKNIKEFLQS	101
100	VNVISDLKKIEDLIQSMIIDATLYTESDVIIPSCKVTAMKCFLLELQVISH	51
100		51
20		
50	MILEKPHLRSISIQCYLCLLHNSHFLTEAGIHVFILGCFSAGLPKTEANW	







